

1 What is claimed is:

2  
3 1. An isolated nucleic acid molecule selected from the group consisting of:

4 a) a nucleic acid molecule comprising a nucleotide sequence of SEQ ID NO:1,  
5 or SEQ ID NO:3;

6 b) a nucleic acid molecule which encodes a polypeptide comprising the amino  
7 acid sequence of SEQ ID NO:2;

8 c) a nucleic acid molecule which encodes a fragment of a polypeptide  
9 comprising the amino acid sequence of SEQ ID NO:2, wherein the fragment comprises at  
10 least 120 contiguous amino acids of SEQ ID NO: 2; and

11 d) a nucleic acid molecule which encodes a naturally occurring allelic variant of  
12 a polypeptide comprising the amino acid sequence of SEQ ID NO:2, wherein the nucleic  
13 acid molecule hybridizes to a nucleic acid molecule comprising SEQ ID NO: 1, 3, or a  
14 complement thereof, under stringent conditions.

15  
16 2. The isolated nucleic acid molecule of claim 1, which is selected from the  
17 group consisting of:

18 a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 1, SEQ ID  
19 NO:3; and

20 b) a nucleic acid molecule which encodes a polypeptide comprising the amino  
21 acid sequence of SEQ ID NO:2.

22  
23 3. The nucleic acid molecule of claim 1 further comprising vector nucleic acid  
24 sequences.

25  
26 4. The nucleic acid molecule of claim 1 further comprising nucleic acid  
27 sequences encoding a heterologous polypeptide.

28  
29 5. A host cell which contains the nucleic acid molecule of claim 1.

30  
31 6. The host cell of claim 5 which is a mammalian host cell.

1           7.       A non-human mammalian host cell containing the nucleic acid molecule of  
2 claim 1.

3  
4           8.       An isolated polypeptide selected from the group consisting of:

5           a)       a polypeptide which is encoded by a nucleic acid molecule comprising a  
6 nucleotide sequence which is at least 95% identical to a nucleic acid comprising the  
7 nucleotide sequence of SEQ ID NO: 1, SEQ ID NO:3, or a complement thereof.

8           b)       a naturally occurring allelic variant of a polypeptide comprising the amino  
9 acid sequence of SEQ ID NO:2, wherein the polypeptide is encoded by a nucleic acid  
10 molecule which hybridizes to a nucleic acid molecule comprising SEQ ID NO: 1, SEQ ID  
11 NO:3, or a complement thereof under stringent conditions; and

12           c)       a fragment of a polypeptide comprising the amino acid sequence of SEQ ID  
13 NO:2, wherein the fragment comprises at least 120 contiguous amino acids of SEQ ID  
14 NO:2.

15  
16           9.       The isolated polypeptide of claim 8 comprising the amino acid sequence of  
17 SEQ ID NO:2.

18  
19           10.      The polypeptide of claim 8 further comprising heterologous amino acid  
20 sequences.

21  
22           11.      An antibody which selectively binds to a polypeptide of claim 8.

23  
24           12.      A method for producing a polypeptide selected from the group consisting of:

25           a)       a polypeptide comprising the amino acid sequence of SEQ ID NO:2;

26           b)       a polypeptide comprising a fragment of the amino acid sequence of SEQ ID  
27 NO:2, wherein the fragment comprises at least 120 contiguous amino acids of SEQ ID  
28 NO:2; and

29           c)       a naturally occurring allelic variant of a polypeptide comprising the amino  
30 acid sequence of SEQ ID NO:2, wherein the polypeptide is encoded by a nucleic acid  
31 molecule which hybridizes to a nucleic acid molecule comprising SEQ ID NO:1, SEQ ID  
32 NO:3, or a complement thereof under stringent conditions;

1 comprising culturing the host cell of claim 5 under conditions in which the nucleic  
2 acid molecule is expressed.

3  
4 13. A method for detecting the presence of a polypeptide of claim 8 in a sample,  
5 comprising:

6 a) contacting the sample with a compound which selectively binds to a  
7 polypeptide of claim 8; and

8 b) determining whether the compound binds to the polypeptide in the sample.  
9

10 14. The method of claim 13, wherein the compound which binds to the  
11 polypeptide is an antibody.  
12

13 15. A kit comprising a compound which selectively binds to a polypeptide of  
14 claim 8 and instructions for use.  
15

16 16. A method for detecting the presence of a nucleic acid molecule of claim 1 in  
17 a sample, comprising the steps of:

18 a) contacting the sample with a nucleic acid probe or primer which selectively  
19 hybridizes to the nucleic acid molecule; and

20 b) determining whether the nucleic acid probe or primer binds to a nucleic acid  
21 molecule in the sample.  
22

23 17. The method of claim 16, wherein the sample comprises mRNA molecules  
24 and is contacted with a nucleic acid probe.  
25

26 18. A kit comprising a compound which selectively hybridizes to a nucleic acid  
27 molecule of claim 1 and instructions for use.  
28

29 19. A method for identifying a compound which binds to a polypeptide of claim  
30 8 comprising the steps of:

31 a) contacting a polypeptide, or a cell expressing a polypeptide of claim 8 with a  
32 test compound; and

33 b) determining whether the polypeptide binds to the test compound.

1  
2           20.    The method of claim 19, wherein the binding of the test compound to the  
3 polypeptide is detected by a method selected from the group consisting of:  
4           a)    detection of binding by direct detecting of test compound/polypeptide  
5 binding;  
6           b)    detection of binding using a competition binding assay;  
7           c)    detection of binding using an assay for 25466-mediated signal transduction.

8  
9           21.    A method for modulating the activity of a polypeptide of claim 8 comprising  
10 contacting a polypeptide or a cell expressing a polypeptide of claim 8 with a compound  
11 which binds to the polypeptide in a sufficient concentration to modulate the activity of the  
12 polypeptide.

13  
14           22.    A method for identifying a compound which modulates the activity of a  
15 polypeptide of claim 8, comprising:  
16           a)    contacting a polypeptide of claim 8 with a test compound; and  
17           b)    determining the effect of the test compound on the activity of the polypeptide  
18 to thereby identify a compound which modulates the activity of the polypeptide.